

## **Patent Abstracts of Japan**

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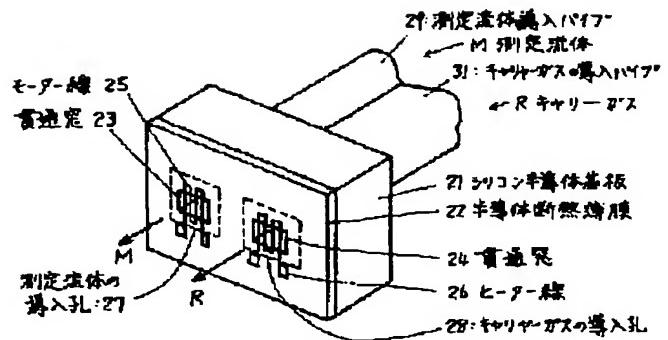
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**TITLE : HEAT CONDUCTIVITY DETECTOR OF  
GAS CHROMATOGRAPH**



**ABSTRACT :** PROBLEM TO BE SOLVED: To provide a heat conductivity detector of gas chromatograph with high-sensitivity but low-cost.

**SOLUTION:** In a heat conductivity detector of gas chromatograph which detects the difference of heat conductivity between carrier gas and measured fluid, the present detector possesses a semiconductor insulation thin film 22 whose one surface is attached over one surface of a silicon semiconductor substrate 21, two through apertures 23, 24 which are formed on the semiconductor insulation thin film 22, heating wires 25, 26 which are attached on the semiconductor insulation thin film such that they cover the through apertures 23, 24 respectively, being placed in parallel with each other, a leading-in hole 27 for measured fluid which is vertically arranged with respect to one surface of the silicon semiconductor substrate 21 corresponding to the aperture 23, and a leading-in hole 28 for carrier gas which is also vertically arranged with respect to the surface of the semiconductor substrate 21 corresponding to the aperture 24.

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